

Refine Search

Search Results -

Terms	Documents
L13 and L18	15

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L20

Search History

DATE: Monday, April 30, 2007[Purge Queries](#)[Printable Copy](#)[Create Case](#)**Set Name Query**

side by side

Hit Count Set Name

result set

DB=PGPB,USPT; PLUR=YES; OP=OR

<u>L20</u>	113 and 118	15	<u>L20</u>
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<u>L19</u>	113 and 116	3	<u>L19</u>
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<u>L18</u>	(536/23.6)![CCLS]	2441	<u>L18</u>
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<u>L17</u>	530/23.6	5	<u>L17</u>
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<u>L16</u>	(530/370)![CCLS]	1036	<u>L16</u>
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DB=PGPB; PLUR=YES; OP=OR

<u>L15</u>	L13	81	<u>L15</u>
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DB=USPT; PLUR=YES; OP=OR

<u>L14</u>	L13	31	<u>L14</u>
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DB=PGPB,USPT; PLUR=YES; OP=OR

<u>L13</u>	plant.clm. and zinc adj finger.clm.	112	<u>L13</u>
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DB=PGPB; PLUR=YES; OP=OR

<u>L12</u>	L10	10	<u>L12</u>
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DB=USPT; PLUR=YES; OP=OR

<u>L11</u>	L10	2	<u>L11</u>
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DB=PGPB,USPT; PLUR=YES; OP=OR

<u>L10</u> plant.clm. and L9	12	<u>L10</u>
<u>L9</u> (engineered or designer) and L5	60	<u>L9</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>		
<u>L8</u> L7	4	<u>L8</u>
<i>DB=PGPB,USPT; PLUR=YES; OP=OR</i>		
<u>L7</u> (engineered or designer) and L6	48	<u>L7</u>
<u>L6</u> plant and L5	61	<u>L6</u>
<u>L5</u> c3h same zinc adj finger	105	<u>L5</u>
<i>DB=PGPB; PLUR=YES; OP=OR</i>		
<u>L4</u> c3h and L2	1	<u>L4</u>
<u>L3</u> c3h and L2	1	<u>L3</u>
<u>L2</u> 20030044957.pn.	1	<u>L2</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>		
<u>L1</u> 20030044957.pn.	0	<u>L1</u>

END OF SEARCH HISTORY

	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help

Query: gi|30686888 ZFWD1 (zinc finger WD40 repeat protein 1); nucleic acid binding / zinc ion binding [Arabidopsis thaliana]

Matching gi: 12057164, 109946599

Show identical	Best hits	Common Tree	Taxonomy Report	3D structures	CDD-Search
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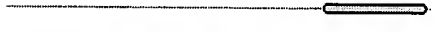
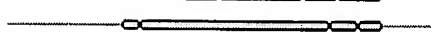

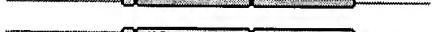















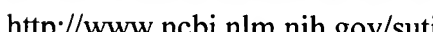

193 BLAST hits to 28 unique species Sort by taxonomy proximity

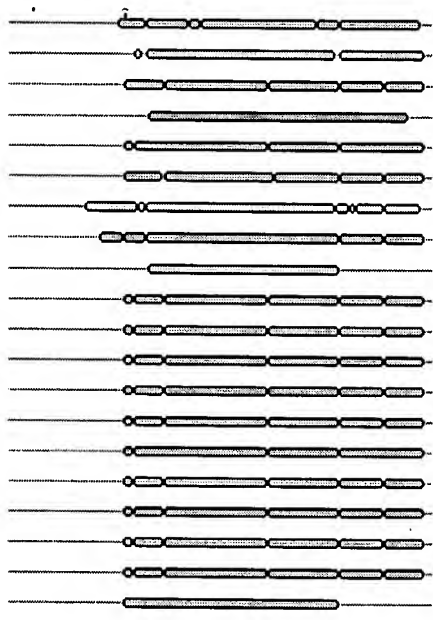
☐ Archaea ☒ 64 Bacteria ☒ 78 Metazoa ☒ 5 Fungi ☒ 17 Plants ☐ 0 Viruses ☒ 19 Other Eukaryotae

Keep only Cut-Off


New search by GI:

430 aa

	SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
	Conserved Domain Database hits				
	2101	19	CAA18182	2980806	putative protein [Arabidopsis thal
	2007	19	BAB11046	10177733	unnamed protein product [Arabidops
	1990	19	CAC19848	12057166	zfwd2 protein [Arabidopsis thalian
	1184	11	EAY87062	125540667	hypothetical protein OsI_008295 [C
	1036	11	NP_001...	115447899	Os02g0677700 [Oryza sativa (japoni
	984	11	EAZ24172	125583241	hypothetical protein OsJ_007655 [C
	873	19	BAB11350	10177967	unnamed protein product [Arabidops
	873	19	CAC19849	12057168	zfwd3 protein [Arabidopsis thalian
	848	19	CAC19850	12057170	zfwd4 protein [Arabidopsis thalian
	819	11	EAY72835	125524721	hypothetical protein OsI_000682 [O
	770	11	ABF93952	108706157	zfwd1 protein, putative, expressed
	768	11	EAY88523	125542384	hypothetical protein OsI_009756 [O
	767	11	EAZ10844	125569329	hypothetical protein OsJ_000669 [O
	706	11	NP_001...	115434986	Os01g0187500 [Oryza sativa (japoni
	270	11	NP_001...	115460020	Os04g0572700 [Oryza sativa (japoni
	268	2	ABL64891	119354020	WD-40 repeat protein [Chlorobium p
	258	1	ECC75959	139006627	hypothetical protein GOS_6141063 [
	254	3	EAL64123	60466056	hypothetical protein DDBDRAFT_0187
	251	3	AAA66070	608520	myosin heavy chain kinase A
	251	3	XP_635119	66802494	myosin heavy chain kinase [Dictyos
	246	3	NP_593310	19114222	hypothetical protein SPAC57A10.05c
	246	2	ZP_013...	106892187	WD-40 repeat:NB-ARC [Roseiflexus s
	240	1	EBZ08403	138342651	hypothetical protein GOS_3282494 [
	237	1	EBL26927	136004615	hypothetical protein GOS_8598561 [
	233	2	ZP_016...	119486195	WD-40 repeat protein [Lyngbya sp.
	231	3	XP_967602	91088783	PREDICTED: similar to CG15010-PC,
	230	2	ZP_001...	23128312	COG2319: FOG: WD40 repeat [Nostoc
	230	3	XP_001...	145552033	gi 145552033
	228	3	NP_523922	17737533	archipelago CG15010-PC, isoform C
	228	3	XP_001...	125978036	GA13429-PA [Drosophila pseudoobscu
	227	3	AAB50136	1903458	myosin heavy chain kinase B [Dicty
	225	2	ZP_015...	118048320	NB-ARC [Chloroflexus aggregans DSM
	224	2	YP_322074	75907778	WD-40 repeat [Anabaena variabilis
	224	3	XP_315369	118786319	ENSANGP00000020955 [Anopheles gamb
	224	3	XP_417265	118085298	PREDICTED: similar to F-box-WD40 r
	223	2	ZP_001...	23128236	COG2319: FOG: WD40 repeat [Nostoc
	223	2	YP_323778	75909482	Pentapeptide repeat [Anabaena vari
	222	2	ZP_001...	53686653	COG2319: FOG: WD40 repeat [Nostoc
	222	3	XP_001...	145545815	gi 145545815
	221	3	EAT36722	108872497	f-box and wd40 domain protein 7 (f



221	3	EAT79675	111058555	hypothetical protein SNOG_12875 [P
221	2	ZP_016...	119490221	Peptidase C14, caspase catalytic s
220	3	CAG12309	47213466	unnamed protein product [Tetraodon
220	3	XP_953310	84997177	hypothetical protein TA10595 [Thei
220	3	ABG54506	110180591	Cdc4 [Xenopus laevis]
219	3	BAC27743	26328005	unnamed protein product [Mus muscu
219	2	ZP_001...	23128981	COG2319: FOG: WD40 repeat [Nostoc
219	3	XP_396532	110749219	PREDICTED: similar to archipelago
219	1	EBL18913	135990939	hypothetical protein GOS_8609665 [
218	3	AAL06290	15721927	archipelago alpha form [Homo sapie
218	3	EAX04979	119625384	F-box and WD-40 domain protein 7 (
218	3	AAK60269	14326447	F-box protein FBX30 [Homo sapiens]
218	3	BAA91986	7023505	unnamed protein product [Homo sapi
218	3	EAX04977	119625382	F-box and WD-40 domain protein 7 (
218	3	AAH37320	34783512	FBXW7 protein [Homo sapiens]
218	3	BAD92962	62089030	F-box protein FBW7 isoform 2 varia
218	3	BAD97169	62898459	F-box protein FBW7 isoform 2 varia
218	3	XP_532689	73977944	PREDICTED: similar to F-box protei
218	3	XP_853624	73977936	PREDICTED: similar to F-box protei
218	3	XP_867701	73977938	PREDICTED: similar to F-box protei

	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help

Query: gi|15240742 AZF1 (ARABIDOPSIS ZINC-FINGER PROTEIN 1); nucleic acid binding / transcription factor/ zinc ion binding [Arabidopsis thaliana]

Matching gi: 27461508, 27765016, 110743426, 42665852, 6009887, 9758444

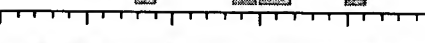

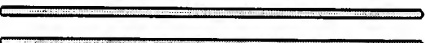
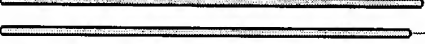


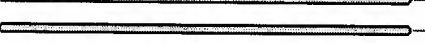



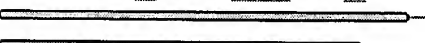
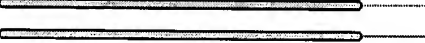

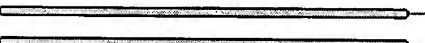
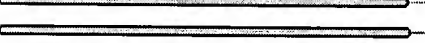


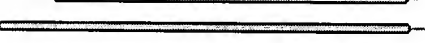












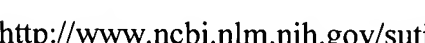

Show identical	Best hits	Common Tree	Taxonomy Report	3D structures	CDD-Search
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129 BLAST hits to 25 unique species Sort by taxonomy proximity

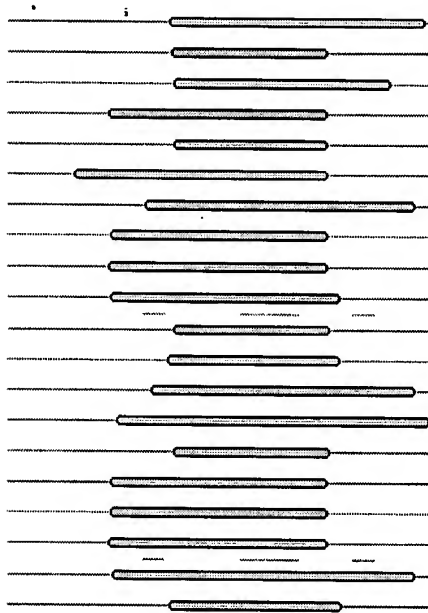
☐ Archaea
 ☐ Bacteria
 ☐ Metazoa
 ☐ Fungi
 ☒ Plants
 ☐ Viruses
 ☐ Other Eukaryotae

Keep only Cut-Off


New search by GI:

245 aa	SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
	1293	19	AAO16037	27464331	zinc finger protein [Arabidopsis t
	945	17	AAB53260	2058504	zinc-finger protein-1 [Brassica ra
	929	17	AAB53261	2058506	zinc-finger protein BcZFP1 [Brassi
	584	19	ABK32191	117168217	At3g49930 [Arabidopsis thaliana]
	459	13	BAE17114	71979887	Cys2-His2 type zinc finger protein
	458	13	AAQ54303	33771374	zinc finger protein PIF1 [Nicotian
	454	14	AAB39638	1763063	SCOF-1 [Glycine max]
	446	13	AAQ54302	33771372	zinc finger protein PIF1 [Capsicum
	440	13	BAA05079	439493	zinc-finger protein [Petunia x hyb
	434	19	AAL34180	17104583	putative salt-tolerance zinc finge
	434	19	AAF24959	6693033	T22C5.18 [Arabidopsis thaliana]
	433	13	CAF74935	55734108	zinc finger DNA-binding protein [C
	428	14	AAD26942	4666360	zinc-finger protein 1 [Datisca glo
	423	19	CAA67228	1418333	zinc finger protein [Arabidopsis t
	419	13	BAA05077	439489	zinc-finger DNA binding protein [P
	415	13	BAA05076	439487	zinc-finger DNA binding protein [P
	410	13	AAC06243	2981169	osmotic stress-induced zinc-finger
	406	19	NP_196054	15237692	C2H2; nucleic acid binding / trans
	406	19	BAC43454	26452746	putative C2H2 zinc finger transcri
	404	19	AAO41869	28392864	putative zinc finger protein [Arab
	382	14	CAB77055	7228329	putative TFIIIA (or kruppel)-like
	375	14	ABE79544	92870213	Zinc finger, C2H2-type [Medicago t
	371	11	AAL34135	17027281	zinc finger transcription factor Z
	343	13	AAU12056	51871855	zinc-finger protein [Solanum phure
	342	11	EAY83680	125537192	hypothetical protein OsI_037639 [O
	341	19	ABD42980	88193782	At5g43170 [Arabidopsis thaliana]
	341	11	Q42430	34925590	Zinc-finger protein 1 (WZF1)
	340	19	AAM67193	21618143	Cys2/His2-type zinc finger protein
	330	13	BAA05078	439491	zinc-finger DNA binding protein [P
	325	11	AAR87353	40539097	putative C2H2 type zinc finger pro
	322	17	ABB55255	81022809	C2H2 zinc finger 2 [Brassica carin
	322	13	ABK78777	118197979	zinc finger protein [Solanum tuber
	305	11	BAF22058	113611680	Os07g0588600 [Oryza sativa (japoni
	302	17	ABB52060	79150554	C2H2-type zinc finger protein [Bra
	297	11	EAZ28680	125588016	hypothetical protein OsJ_012163 [O
	261	11	AAP51130	31580711	C2H2-type zinc finger protein ZFP3
	260	11	AAR89021	40737008	C2H2-type zinc finger protein ZFP3
	259	11	EAZ27446	125586782	hypothetical protein OsJ_010929 [O
	256	11	EAY90585	125544446	hypothetical protein OsI_011818 [O

	245	19	CAA67236	1418339	zinc finger protein [Arabidopsis t
	245	19	AAD29833	4803961	putative zinc-finger protein [Arab
	245	19	NP 180387	79564965	nucleic acid binding / transcripti
	234	19	AAG51770	12323594	zinc finger protein ATZF1, putativ
	233	19	AAD32825	4895240	putative C2H2-type zinc finger pro
	224	13	BAA21920	2346972	ZPT2-11 [Petunia x hybrida]
	224	13	AAY40247	63259075	Cys2/His2 zinc-finger transcriptio
	224	11	BAF22066	113611688	Os07g0590100 [Oryza sativa (japoni
	222	11	EAZ04542	125559006	hypothetical protein OsI_025774 [O
	214	19	BAC43008	26451831	putative zinc finger protein [Arab
	214	19	NP 191617	15232368	nucleic acid binding / transcripti
	213	13	BAA21928	2346988	ZPT4-4 [Petunia x hybrida]
	212	11	EAY88080	125541685	hypothetical protein OsI_009313 [O
	210	11	BAD22927	48716314	putative finger protein EPF1 [Oryz
	209	11	BAD30715	50508140	putative zinc finger transcription
	208	11	AAQ56539	34015350	putative zinc finger transcription
	206	19	AAY78685	67633522	zinc finger (C2H2 type) family pro
	206	13	AAY40251	63259083	Cys2/His2 zinc-finger transcriptio
	205	14	CAA60828	861091	putative zinc finger protein [Pisu
	204	19	AAC09174	3004882	zinc finger protein; ATZF1 [Arabid
	204	19	NP 196059	15237697	nucleic acid binding / zinc ion bi
	203	13	BAA19114	1786142	PETHy;ZPT4-1 [Petunia x hybrida]
	203	19	BAB09111	9758747	unnamed protein product [Arabidops
	202	13	BAA19112	1786138	PETHy;ZPT3-1 [Petunia x hybrida]
	201	19	CAA18741	3080422	putative zinc-finger protein [Arab
	201	19	ABK28666	116831427	unknown [Arabidopsis thaliana]
	200	13	AAY40249	63259079	Cys2/His2 zinc-finger transcriptio
	199	11	NP 001...	115473093	Os07g0588700 [Oryza sativa (japoni
	199	11	EAZ40486	125600910	hypothetical protein OsJ_023969 [O
	198	19	BAD44357	51971385	unknown protein [Arabidopsis thali
	196	13	AAS79571	45935113	putative zinc finger protein [Ipom
	196	14	AAZ03389	69111473	C2H2 transcription factor [Glycine
	192	19	AAC98070	4056504	putative C2H2-type zinc finger pro
	190	13	AAY40250	63259081	Cys2/His2 zinc-finger transcriptio
	188	19	NP 171706	15217596	nucleic acid binding / transcripti
	188	11	CAH67410	116310401	OSIGBa0143N19.4 [Oryza sativa (ind
	187	19	CAA67230	1418335	zinc finger protein [Arabidopsis t
	186	13	BAA96070	7959291	C2H2 zinc-finger protein ZPT2-10 [
	185	13	BAA20137	1786146	ZPT4-3 [Petunia x hybrida]
	184	13	CAA43111	20546	DNA-binding protein [Petunia x hyb
	184	13	BAA19111	1786136	PETHy;ZPT2-6 [Petunia x hybrida]
	183	13	BAA21927	2346986	ZPT3-3 [Petunia x hybrida]
	183	13	AAT40491	48209897	Putative zinc finger protein, iden
	182	19	AAG51397	12322800	hypothetical protein; 86933-85737
	181	11	CAE01690	38345473	OSJNBa0010H02.11 [Oryza sativa (ja
	181	11	EAY95098	125549276	hypothetical protein OsI_016331 [O
	180	11	CAD41223	38345472	OSJNBa0010H02.10 [Oryza sativa (ja
	180	11	NP 001...	115459808	Os04g0552400 [Oryza sativa (japoni
	177	19	NP 171705	15217595	nucleic acid binding / transcripti
	177	14	ABE93962	92897917	Zinc finger, C2H2-type [Medicago t
	175	11	EAZ26469	125585805	hypothetical protein OsJ_009952 [O
	173	13	BAA21922	2346976	ZPT2-13 [Petunia x hybrida]
	173	13	BAA21926	2346984	ZPT2-9 [Petunia x hybrida]
	173	14	CAI77630	68655289	putative Cys2-His2 zinc finger tra
	172	11	EAY92991	125547169	hypothetical protein OsI_014224 [O
	171	11	BAF11648	113548205	Os03g0279700 [Oryza sativa (japoni
	170	13	CAF74934	55734106	zinc finger DNA-binding protein [C
	170	11	EAZ04534	125558998	hypothetical protein OsI_025766 [O
	168	13	BAA21921	2346974	ZPT2-12 [Petunia x hybrida]
	168	11	CAE02950	32488201	OSJNBb0050N09.1 [Oryza sativa (jap
	168	13	AAY40248	63259077	Cys2/His2 zinc-finger transcriptio
	166	11	ABF99581	108711786	Zinc finger, C2H2 type family prot



<u>166</u>	11	<u>EAY92363</u>	<u>125546224</u>	hypothetical protein OsI_013596 [O
<u>165</u>	14	<u>ABE82107</u>	<u>92873710</u>	Zinc finger, C2H2-type [Medicago t
<u>164</u>	11	<u>NP_001...</u>	<u>115486777</u>	Os11g0702400 [Oryza sativa (japoni
<u>163</u>	19	<u>CAB90936</u>	<u>7798997</u>	zinc finger protein ZAT7 [Arabidop
<u>162</u>	11	<u>EAY81885</u>	<u>125535337</u>	hypothetical protein OsI_035844 [O
<u>161</u>	19	<u>NP_190928</u>	<u>15231845</u>	nucleic acid binding / transcripti
<u>161</u>	11	<u>ABA25903</u>	<u>75706704</u>	ZFP16-2 [Hordeum vulgare subsp. vu
<u>160</u>	19	<u>NP_190194</u>	<u>15231334</u>	nucleic acid binding / transcripti
<u>160</u>	11	<u>BAF16374</u>	<u>113578011</u>	Os05g0114400 [Oryza sativa (japoni
<u>159</u>	13	<u>CAF74933</u>	<u>55734104</u>	zinc finger DNA-binding protein [C
<u>158</u>	13	<u>BAA21925</u>	<u>2346982</u>	ZPT2-8 [Petunia x hybrida]
<u>158</u>	14	<u>ABE93963</u>	<u>92897918</u>	Zinc finger, C2H2-type [Medicago t
<u>157</u>	11	<u>ABA25901</u>	<u>75706700</u>	ZFP16-2 [Hordeum vulgare subsp. vu
<u>156</u>	11	<u>NP_001...</u>	<u>115457052</u>	Os04g0162500 [Oryza sativa (japoni
<u>154</u>	19	<u>NP_200955</u>	<u>15240260</u>	nucleic acid binding / transcripti
<u>154</u>	11	<u>EAZ24078</u>	<u>125583147</u>	hypothetical protein OsJ_007561 [O
<u>154</u>	11	<u>EAY86963</u>	<u>125540568</u>	hypothetical protein OsI_008196 [O
<u>153</u>	11	<u>AAP74357</u>	<u>32172480</u>	C2H2 type zinc finger transcriptio
<u>153</u>	11	<u>ABA25898</u>	<u>75706694</u>	ZFP16-1 [Hordeum vulgare subsp. vu
<u>152</u>	19	<u>BAB08349</u>	<u>9757902</u>	zinc finger protein [Arabidopsis t

	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help

Query: gi|15239195 AZF3 (ARABIDOPSIS ZINC-FINGER PROTEIN 3); nucleic acid binding / transcription factor/ zinc ion binding [Arabidopsis thaliana]

Matching gi: 88193782, 145045464, 6009889, 9757844



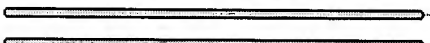
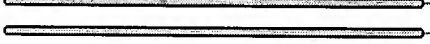





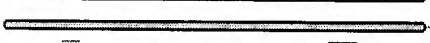



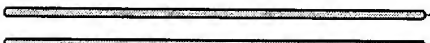
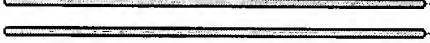


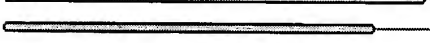


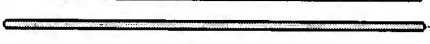





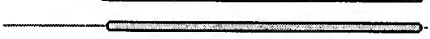

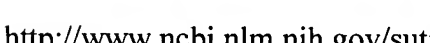
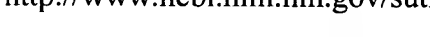
Show identical	Best hits	Common Tree	Taxonomy Report	3D structures	CDD-Search
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145 BLAST hits to 26 unique species Sort by taxonomy proximity

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 ☒ Metazoa
 ☐ Fungi
 ☒ Plants
 ☐ Viruses
 ☐ Other Eukaryotae


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New search by GI:

193 aa	SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
	1012	19	AAM67193	21618143	Cys2/His2-type zinc finger protein
	600	19	AAL34180	17104583	putative salt-tolerance zinc finge
	600	19	AAF24959	6693033	T22C5.18 [Arabidopsis thaliana]
	589	19	CAA67228	1418333	zinc finger protein [Arabidopsis t
	485	19	NP_196054	15237692	C2H2; nucleic acid binding / trans
	485	19	BAC43454	26452746	putative C2H2 zinc finger transcri
	437	14	AAD26942	4666360	zinc-finger protein 1 [Datisca glo
	425	13	AAQ54303	33771374	zinc finger protein PIF1 [Nicotian
	419	13	AAQ54302	33771372	zinc finger protein PIF1 [Capsicum
	418	13	BAA05079	439493	zinc-finger protein [Petunia x hyb
	417	13	BAE17114	71979887	Cys2-His2 type zinc finger protein
	407	14	CAB77055	7228329	putative TFIIIA (or kruppel)-like
	400	14	AAB39638	1763063	SCOF-1 [Glycine max]
	396	14	ABE79544	92870213	Zinc finger, C2H2-type [Medicago t
	396	17	ABB52060	79150554	C2H2-type zinc finger protein [Bra
	386	17	ABB55255	81022809	C2H2 zinc finger 2 [Brassica carin
	381	13	CAF74935	55734108	zinc finger DNA-binding protein [C
	355	13	BAA05076	439487	zinc-finger DNA binding protein [P
	350	13	BAA05077	439489	zinc-finger DNA binding protein [P
	345	19	AAO41869	28392864	putative zinc finger protein [Arab
	341	19	AAO16037	27464331	zinc finger protein [Arabidopsis t
	341	19	AAM78034	27461508	zinc finger protein OZAKGYO [Arabi
	334	13	AAC06243	2981169	osmotic stress-induced zinc-finger
	322	19	ABK32191	117168217	At3g49930 [Arabidopsis thaliana]
	319	17	AAB53261	2058506	zinc-finger protein BcZFP1 [Brassi
	316	17	AAB53260	2058504	zinc-finger protein-1 [Brassica ra
	310	11	Q42430	34925590	Zinc-finger protein 1 (WZF1)
	309	13	AAU12056	51871855	zinc-finger protein [Solanum phure
	307	11	AAL34135	17027281	zinc finger transcription factor Z
	298	13	BAA05078	439491	zinc-finger DNA binding protein [P
	294	11	AAP51130	31580711	C2H2-type zinc finger protein ZFP3
	294	11	AAR89021	40737008	C2H2-type zinc finger protein ZFP3
	294	11	EAZ27446	125586782	hypothetical protein OsJ_010929 [O
	293	13	ABK78777	118197979	zinc finger protein [Solanum tuber
	285	11	AAR87353	40539097	putative C2H2 type zinc finger pro
	278	11	EAY90585	125544446	hypothetical protein OsI_011818 [O
	268	11	EAZ28680	125588016	hypothetical protein OsJ_012163 [O
	267	11	BAF22058	113611680	Os07g0588600 [Oryza sativa (japoni
	245	11	EAZ04542	125559006	hypothetical protein OsI_025774 [O

	240	11	BAF22066	113611688	Os07g0590100 [Oryza sativa (japoni
	229	11	NP_001...	115473093	Os07g0588700 [Oryza sativa (japoni
	229	11	EAZ40486	125600910	hypothetical protein OsJ_023969 [O
	209	13	AAZ40249	63259079	Cys2/His2 zinc-finger transcriptio
	208	13	BAA21921	2346974	ZPT2-12 [Petunia x hybrida]
	207	13	BAA21922	2346976	ZPT2-13 [Petunia x hybrida]
	205	19	BAB09111	9758747	unnamed protein product [Arabidops
	202	13	BAA21927	2346986	ZPT3-3 [Petunia x hybrida]
	202	13	AAZ40247	63259075	Cys2/His2 zinc-finger transcriptio
	201	19	NP_171706	15217596	nucleic acid binding / transcripti
	199	19	CAB90936	7798997	zinc finger protein ZAT7 [Arabidop
	197	19	BAC43008	26451831	putative zinc finger protein [Arab
	197	19	NP_191617	15232368	nucleic acid binding / transcripti
	196	19	NP_190194	15231334	nucleic acid binding / transcripti
	196	11	EAZ04534	125558998	hypothetical protein OsI_025766 [O
	193	19	AAG51770	12323594	zinc finger protein ATZF1, putativ
	193	14	ABE93963	92897918	Zinc finger, C2H2-type [Medicago t
	191	19	AAZ78685	67633522	zinc finger (C2H2 type) family pro
	191	19	NP_171705	15217595	nucleic acid binding / transcripti
	191	13	CAF74934	55734106	zinc finger DNA-binding protein [C
	191	13	CAF74933	55734104	zinc finger DNA-binding protein [C
	188	19	AAC09174	3004882	zinc finger protein; ATZF1 [Arabid
	187	14	CAI77630	68655289	putative Cys2-His2 zinc finger tra
	187	14	ABO80216	140052522	Zinc finger, C2H2-type [Medicago t
	186	19	AAD32825	4895240	putative C2H2-type zinc finger pro
	186	19	AAM65582	21593615	zinc finger protein Zat12 [Arabido
	185	19	CAA67236	1418339	zinc finger protein [Arabidopsis t
	185	19	AAD29833	4803961	putative zinc-finger protein [Arab
	185	19	NP_180387	79564965	nucleic acid binding / transcripti
	184	13	BAA21923	2346978	ZPT2-14 [Petunia x hybrida]
	182	19	BAB08349	9757902	zinc finger protein [Arabidopsis t
	181	14	AAZ03389	69111473	C2H2 transcription factor [Glycine
	181	17	ABB52061	79150591	C2H2-type zinc finger protein [Bra
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	180	11	EAY92363	125546224	hypothetical protein OsI_013596 [O
	179	19	CAA18741	3080422	putative zinc-finger protein [Arab
	179	19	ABK28666	116831427	unknown [Arabidopsis thaliana]
	178	13	BAA20137	1786146	ZPT4-3 [Petunia x hybrida]
	178	14	ABE93962	92897917	Zinc finger, C2H2-type [Medicago t
	176	13	BAA96070	7959291	C2H2 zinc-finger protein ZPT2-10 [
	176	17	ABB55254	81022807	C2H2 zinc finger protein 1 [Brassi
	175	13	BAA21920	2346972	ZPT2-11 [Petunia x hybrida]
	175	13	BAA19112	1786138	PETHy;ZPT3-1 [Petunia x hybrida]
	174	19	CAB90934	7798995	zinc finger-like protein [Arabidop
	174	14	ABE82107	92873710	Zinc finger, C2H2-type [Medicago t
	174	19	ABK28589	116831270	unknown [Arabidopsis thaliana]
	172	13	BAA19114	1786142	PETHy;ZPT4-1 [Petunia x hybrida]
	172	19	AAC98070	4056504	putative C2H2-type zinc finger pro
	172	13	BAA21924	2346980	ZPT2-7 [Petunia x hybrida]
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	172	11	EAZ16935	125575651	hypothetical protein OsJ_031144 [O
	171	13	AAZ40248	63259077	Cys2/His2 zinc-finger transcriptio
	170	19	AAD24362	4580383	putative C2H2-type zinc finger pro
	170	11	BAF16374	113578011	Os05g0114400 [Oryza sativa (japoni
	168	13	BAA21925	2346982	ZPT2-8 [Petunia x hybrida]
	168	13	AAZ40250	63259081	Cys2/His2 zinc-finger transcriptio
	167	11	AAP74357	32172480	C2H2 type zinc finger transcriptio
	167	11	ABA25900	75706698	ZFP16-1 [Hordeum vulgare subsp. vu
	167	11	EAZ26469	125585805	hypothetical protein OsJ_009952 [O
	166	11	ABA25898	75706694	ZFP16-1 [Hordeum vulgare subsp. vu
	166	11	BAF11648	113548205	Os03g0279700 [Oryza sativa (japoni
	165	11	EAZ27762	125587098	hypothetical protein OsJ_011245 [O

	163	19	CAA67230	1418335	zinc finger protein [Arabidopsis t
	161	13	BAA19110	1786134	PEThy;ZPT2-5 [Petunia x hybrida]
	161	13	CAA43111	20546	DNA-binding protein [Petunia x hybrida]
	161	13	BAA21926	2346984	ZPT2-9 [Petunia x hybrida]
	160	13	BAA19111	1786136	PEThy;ZPT2-6 [Petunia x hybrida]
	159	19	BAD44357	51971385	unknown protein [Arabidopsis thaliana]
	158	13	BAA21928	2346988	ZPT4-4 [Petunia x hybrida]
	158	11	EAY81885	125535337	hypothetical protein OsI_035844 [Oryza sativa]
	158	11	NP_001...	115486777	Os11g0702400 [Oryza sativa (japonica)]
	156	19	NP_190928	15231845	nucleic acid binding / transcription factor
	156	11	ABA25903	75706704	ZFP16-2 [Hordeum vulgare subsp. vulgare]
	156	11	ABA25901	75706700	ZFP16-2 [Hordeum vulgare subsp. vulgare]
	155	14	CAA60828	861091	putative zinc finger protein [Pisum sativum]
	155	11	CAE01690	38345473	OSJNBa0010H02.11 [Oryza sativa (japonica)]
	155	11	EAY95098	125549276	hypothetical protein OsI_016331 [Oryza sativa]
	155	11	EAY76434	125528320	hypothetical protein OsI_004281 [Oryza sativa]
	154	11	BAF06664	113534281	Os01g0839100 [Oryza sativa (japonica)]
	154	11	EAZ14093	125572578	hypothetical protein OsJ_003918 [Oryza sativa]
	152	19	NP_200955	15240260	nucleic acid binding / transcription factor
	151	13	BAA19926	2081604	PEThy; ZPT4-2 [Petunia x hybrida]
	151	13	AAS79571	45935113	putative zinc finger protein [Ipomoea batatas]
	148	19	BAB02579	11994515	unnamed protein product [Arabidopsis thaliana]
	147	11	BAD30715	50508140	putative zinc finger transcription factor
	146	19	AAG51397	12322800	hypothetical protein; 86933-85737
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	146	3	BAE24552	74187820	unnamed protein product [Mus musculus]
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	145	11	AAQ56539	34015350	putative zinc finger transcription factor
	144	11	EAZ24078	125583147	hypothetical protein OsJ_007561 [Oryza sativa]
	144	11	EAY86963	125540568	hypothetical protein OsI_008196 [Oryza sativa]
	142	19	NP_196059	15237697	nucleic acid binding / zinc ion binding
	141	13	AAT40491	48209897	Putative zinc finger protein, identical to
	140	19	NP_189580	15228685	nucleic acid binding / transcription factor
	140	11	ABA95485	77552688	Zinc finger, C2H2 type family protein
	140	11	EAY81884	125535336	hypothetical protein OsI_035843 [Oryza sativa]
	138	11	EAY92366	125546227	hypothetical protein OsI_013599 [Oryza sativa]
	137	11	BAC15513	22775659	hypothetical protein [Oryza sativa]
	137	11	EAZ40557	125600981	hypothetical protein OsJ_024040 [Oryza sativa]
	135	11	AAP31023	30420734	zinc finger transcription factor Z
	135	11	BAD81695	56784648	zinc finger transcription factor Z
	135	11	NP_001...	115440935	Os01g0838600 [Oryza sativa (japonica)]

	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help

Query: gi|15230889 AZF2 (ARABIDOPSIS ZINC-FINGER PROTEIN 2); nucleic acid binding / transcription factor/ zinc ion binding [Arabidopsis thaliana]

Matching gi: 28392864, 6009885, 42665853, 9294422, 9965733

Show identical	Best hits	Common Tree	Taxonomy Report	3D structures	CDD-Search
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141 BLAST hits to 25 unique species Sort by taxonomy proximity

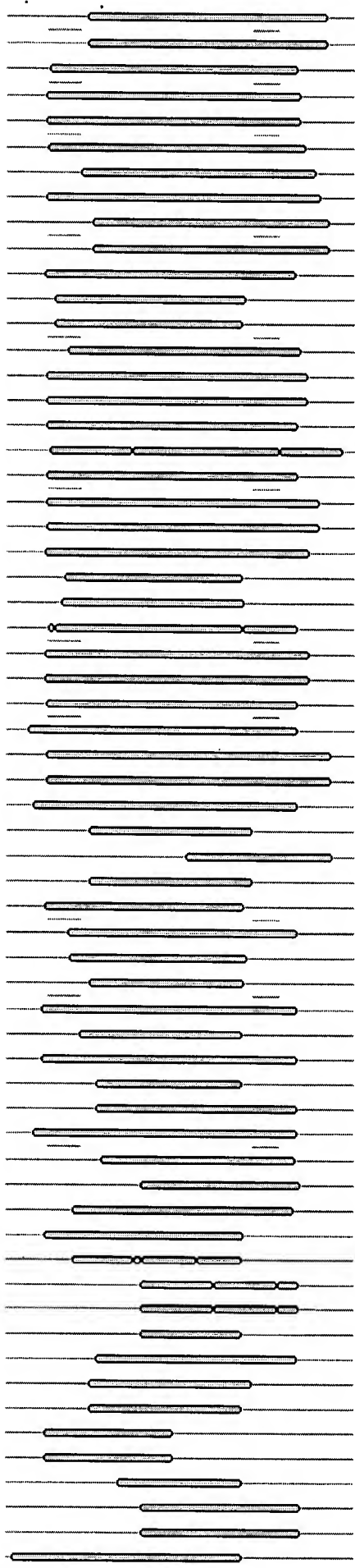
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 ☐ Bacteria
 ☐ Metazoa
 ☐ Fungi
 ☒ Plants
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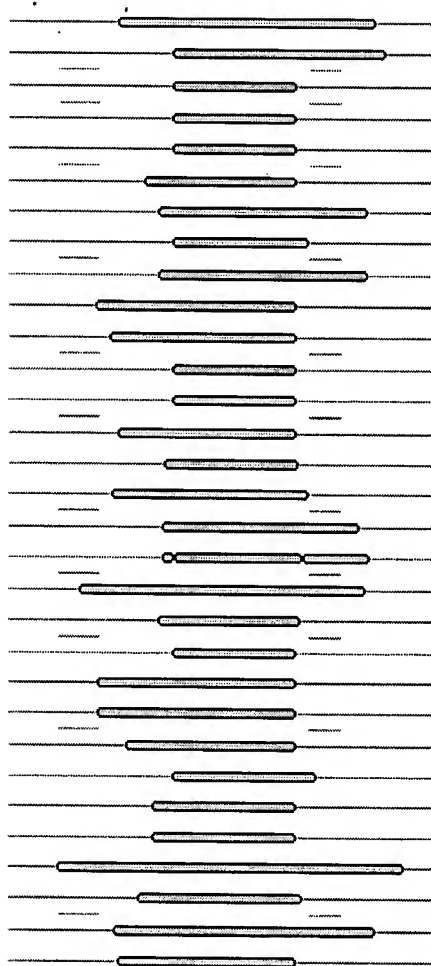
New search by GI:

273 aa


	SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
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	484	13	CAF74935	55734108	zinc finger DNA-binding protein [C
	483	14	CAB77055	7228329	putative TFIIIA (or kruppel)-like
	467	13	BAA05079	439493	zinc-finger protein [Petunia x hyb
	464	19	AAL34180	17104583	putative salt-tolerance zinc finge
	464	19	AAF24959	6693033	T22C5.18 [Arabidopsis thaliana]
	453	19	CAA67228	1418333	zinc finger protein [Arabidopsis t
	448	19	NP_196054	15237692	C2H2; nucleic acid binding / trans
	448	19	BAC43454	26452746	putative C2H2 zinc finger transcri
	446	14	AAB39638	1763063	SCOF-1 [Glycine max]
	443	13	AAQ54302	33771372	zinc finger protein PIF1 [Capsicum
	437	13	AAC06243	2981169	osmotic stress-induced zinc-finger
	435	13	BAE17114	71979887	Cys2-His2 type zinc finger protein
	431	14	ABE79544	92870213	Zinc finger, C2H2-type [Medicago t
	430	13	AAQ54303	33771374	zinc finger protein PIF1 [Nicotian
	426	13	BAA05077	439489	zinc-finger DNA binding protein [P
	421	13	BAA05076	439487	zinc-finger DNA binding protein [P
	404	19	AAO16037	27464331	zinc finger protein [Arabidopsis t
	404	19	AAM78034	27461508	zinc finger protein OZAKGYO [Arabi
	403	13	BAA05078	439491	zinc-finger DNA binding protein [P
	402	11	EAY83680	125537192	hypothetical protein OsI_037639 [O
	393	17	AAB53260	2058504	zinc-finger protein-1 [Brassica ra
	393	13	AAU12056	51871855	zinc-finger protein [Solanum phure
	391	17	AAB53261	2058506	zinc-finger protein BcZFP1 [Brassi
	381	11	AAL34135	17027281	zinc finger transcription factor Z
	375	13	ABK78777	118197979	zinc finger protein [Solanum tuber
	373	19	ABK32191	117168217	At3g49930 [Arabidopsis thaliana]
	366	11	Q42430	34925590	Zinc-finger protein 1 (WZF1)
	358	11	AAR87353	40539097	putative C2H2 type zinc finger pro
	355	17	ABB55255	81022809	C2H2 zinc finger 2 [Brassica carin
	345	19	ABD42980	88193782	At5g43170 [Arabidopsis thaliana]
	343	19	AAM67193	21618143	Cys2/His2-type zinc finger protein
	329	19	AAG51770	12323594	zinc finger protein ATZF1, putativ
	328	17	ABB52060	79150554	C2H2-type zinc finger protein [Bra
	327	11	EAZ28680	125588016	hypothetical protein OsJ_012163 [O
	324	19	AAC09174	3004882	zinc finger protein; ATZF1 [Arabid
	306	11	EAY90585	125544446	hypothetical protein OsI_011818 [O
	297	11	BAF22058	113611680	Os07g0588600 [Oryza sativa (japoni
	281	11	AAP51130	31580711	C2H2-type zinc finger protein ZFP3



280	11	AAR89021	40737008	C2H2-type zinc finger protein ZFP3
278	11	EAZ27446	125586782	hypothetical protein OsJ_010929 [O
252	19	AAD32825	4895240	putative C2H2-type zinc finger pro
250	19	BAC43008	26451831	putative zinc finger protein [Arab
250	19	NP 191617	15232368	nucleic acid binding / transcripti
236	13	CAA43111	20546	DNA-binding protein [Petunia x hyb
236	13	AAAY40249	63259079	Cys2/His2 zinc-finger transcriptio
227	13	BAA96070	7959291	C2H2 zinc-finger protein ZPT2-10 [
226	11	BAF22066	113611688	Os07g0590100 [Oryza sativa (japoni
224	11	EAZ04542	125559006	hypothetical protein OsI_025774 [O
219	13	BAA21927	2346986	ZPT3-3 [Petunia x hybrida]
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218	19	ABK28666	116831427	unknown [Arabidopsis thaliana]
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213	19	AAD29833	4803961	putative zinc-finger protein [Arab
213	19	NP 180387	79564965	nucleic acid binding / transcripti
212	19	CAA67236	1418339	zinc finger protein [Arabidopsis t
211	13	BAA21928	2346988	ZPT4-4 [Petunia x hybrida]
210	19	BAD44357	51971385	unknown protein [Arabidopsis thali
210	11	NP 001...	115483354	Os10g0555300 [Oryza sativa (japoni
210	11	EAZ16935	125575651	hypothetical protein OsJ_031144 [O
209	11	CAH67410	116310401	OSIGBa0143N19.4 [Oryza sativa (ind
208	13	AAAY40248	63259077	Cys2/His2 zinc-finger transcriptio
207	19	NP 171706	15217596	nucleic acid binding / transcripti
207	19	AAAY78685	67633522	zinc finger (C2H2 type) family pro
204	11	CAD41223	38345472	OSJNBa0010H02.10 [Oryza sativa (ja
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201	11	BAD22927	48716314	putative finger protein EPF1 [Oryz
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198	11	EAZ40486	125600910	hypothetical protein OsJ_023969 [O
197	13	BAA19114	1786142	PETHy;ZPT4-1 [Petunia x hybrida]
197	13	AAAY40250	63259081	Cys2/His2 zinc-finger transcriptio
196	13	BAA21922	2346976	ZPT2-13 [Petunia x hybrida]
195	13	BAA19112	1786138	PETHy;ZPT3-1 [Petunia x hybrida]
193	11	CAE01690	38345473	OSJNBa0010H02.11 [Oryza sativa (ja
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192	11	EAY95098	125549276	hypothetical protein OsI_016331 [O
191	14	ABE93962	92897917	Zinc finger, C2H2-type [Medicago t
190	19	AAD24362	4580383	putative C2H2-type zinc finger pro
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188	13	BAA19111	1786136	PETHy;ZPT2-6 [Petunia x hybrida]
185	13	AAS79571	45935113	putative zinc finger protein [Ipom
184	13	CAF74934	55734106	zinc finger DNA-binding protein [C
184	13	AAAY40251	63259083	Cys2/His2 zinc-finger transcriptio
181	19	BAB09111	9758747	unnamed protein product [Arabidops
181	11	EAY92363	125546224	hypothetical protein OsI_013596 [O
180	11	ABF99581	108711786	Zinc finger, C2H2 type family prot
179	13	BAA21925	2346982	ZPT2-8 [Petunia x hybrida]
179	11	NP 001...	115457052	Os04g0162500 [Oryza sativa (japoni
179	11	EAY86963	125540568	hypothetical protein OsI_008196 [O
178	11	EAZ24078	125583147	hypothetical protein OsJ_007561 [O
177	11	AAQ56539	34015350	putative zinc finger transcription
177	11	BAD30715	50508140	putative zinc finger transcription
176	14	ABE82107	92873710	Zinc finger, C2H2-type [Medicago t
175	11	ABA25903	75706704	ZFP16-2 [Hordeum vulgare subsp. vu
175	11	ABA25901	75706700	ZFP16-2 [Hordeum vulgare subsp. vu
174	19	NP 196059	15237697	nucleic acid binding / zinc ion bi



172	14	AAZ03389	69111473	C2H2 transcription factor [Glycine
169	13	BAA20137	1786146	ZPT4-3 [Petunia x hybrida]
169	11	AAP31023	30420734	zinc finger transcription factor Z
169	11	EAY76430	125528316	hypothetical protein OsI_004277 [O
168	19	AAG51397	12322800	hypothetical protein; 86933-85737
168	13	BAA21923	2346978	ZPT2-14 [Petunia x hybrida]
168	11	BAF11648	113548205	Os03g0279700 [Oryza sativa (japoni
168	11	EAZ04534	125558998	hypothetical protein OsI_025766 [O
168	11	EAZ26469	125585805	hypothetical protein OsJ_009952 [O
167	19	AAC98070	4056504	putative C2H2-type zinc finger pro
166	14	CAA60828	861091	putative zinc finger protein [Pisu
165	11	BAD81695	56784648	zinc finger transcription factor Z
165	11	NP_001...	115440935	Os01g0838600 [Oryza sativa (japoni
164	19	CAA67230	1418335	zinc finger protein [Arabidopsis t
164	19	NP_200955	15240260	nucleic acid binding / transcripti
164	13	CAF74933	55734104	zinc finger DNA-binding protein [C
163	13	BAA21926	2346984	ZPT2-9 [Petunia x hybrida]
163	13	AAT40491	48209897	Putative zinc finger protein, iden
161	13	BAA19113	1786140	tapetum-specific zinc finger prote
160	11	EAY92366	125546227	hypothetical protein OsI_013599 [O
160	13	BAA21924	2346980	ZPT2-7 [Petunia x hybrida]
160	19	CAB90934	7798995	zinc finger-like protein [Arabidop
160	19	ABK28589	116831270	unknown [Arabidopsis thaliana]
160	11	EAY76434	125528320	hypothetical protein OsI_004281 [O
159	11	EAZ29082	125588418	hypothetical protein OsJ_012565 [O
158	11	BAF06664	113534281	Os01g0839100 [Oryza sativa (japoni
158	11	EAZ14093	125572578	hypothetical protein OsJ_003918 [O
158	11	EAZ25138	125584207	hypothetical protein OsJ_008621 [O
157	13	AAV40246	63259073	Cys2/His2 zinc-finger transcriptio
155	11	ABA25898	75706694	ZFP16-1 [Hordeum vulgare subsp. vu
154	14	CAI77630	68655289	putative Cys2-His2 zinc finger tra

	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help

Query: gi|21665845 transcription factor R18 [Craterostigma plantagineum]

Show identical	Best hits	Common Tree	Taxonomy Report	3D structures	CDD-Search
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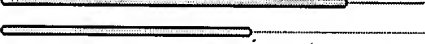

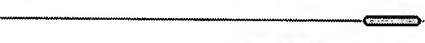
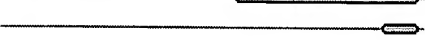



9 BLAST hits to 6 unique species [Sort by taxonomy proximity](#)


☐ Archaea
 ☐ Bacteria
 ☒ Metazoa
 ☐ Fungi
 ☒ Plants
 ☐ Viruses
 ☒ Other Eukaryotae

Keep only Cut-Off

New search by GI:

434 aa

	SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
<u>Conserved Domain Database hits</u>					
	876	13	ABE86141	92881265	Zinc finger, CCCH-type; DNA-bindin
	624	11	ABB47500	110289029	SAP domain containing protein, exp
	545	13	BAB08626	9758134	unnamed protein product [Arabidops
	472	11	BAF22210	113611832	Os07g0619700 [Oryza sativa (japoni
	443	11	BAC10169	22296401	transcription factor R18-like prot
	311	11	BAF26424	113639119	Os10g0391300 [Oryza sativa (japoni
	124	3	XP_001...	115973509	PREDICTED: similar to makorin, rin
	117	3	FAA00112	93003058	TPA: zinc finger protein [Ciona in
	108	3	XP_001...	118400634	50S ribosomal protein [Tetrahymena

	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help

Query: gi|6681285 early growth response 1 [Mus musculus]

Matching gi: 74226865, 40090821, 119243, 201934, 309213, 26334061, 3995543, 3997211, 34424665

ZIF268

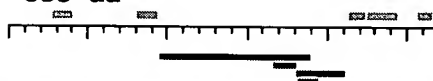
Show identical	Best hits	Common Tree	Taxonomy Report	3D structures	CDD-Search
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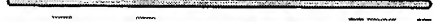

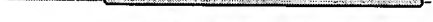















197 BLAST hits to 119 unique species Sort by taxonomy proximity

☐ Archaea ☐ Bacteria ☒ Metazoa ☐ Fungi ☐ Plants ☐ Viruses ☐ Other Eukaryotae

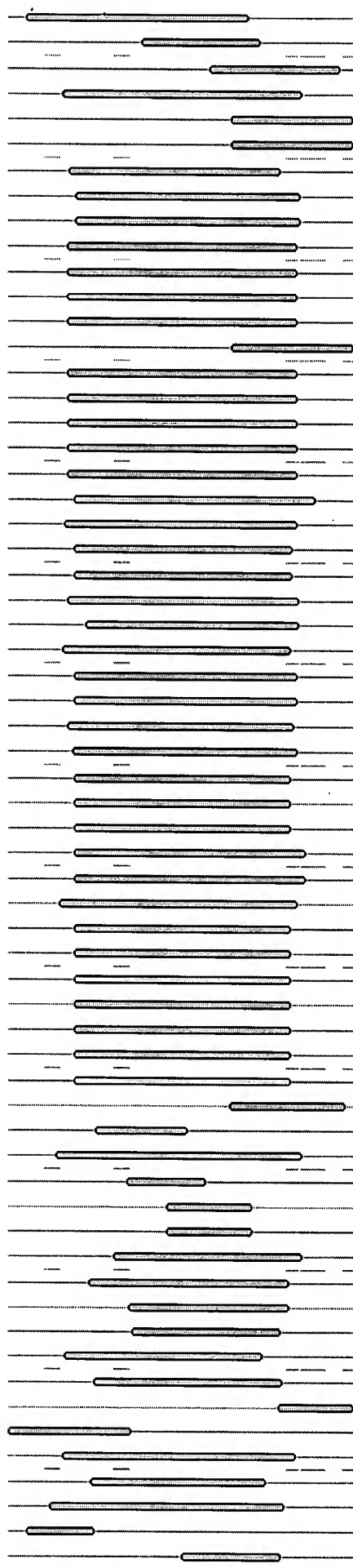
Keep only Cut-Off New search by GI:

533 aa

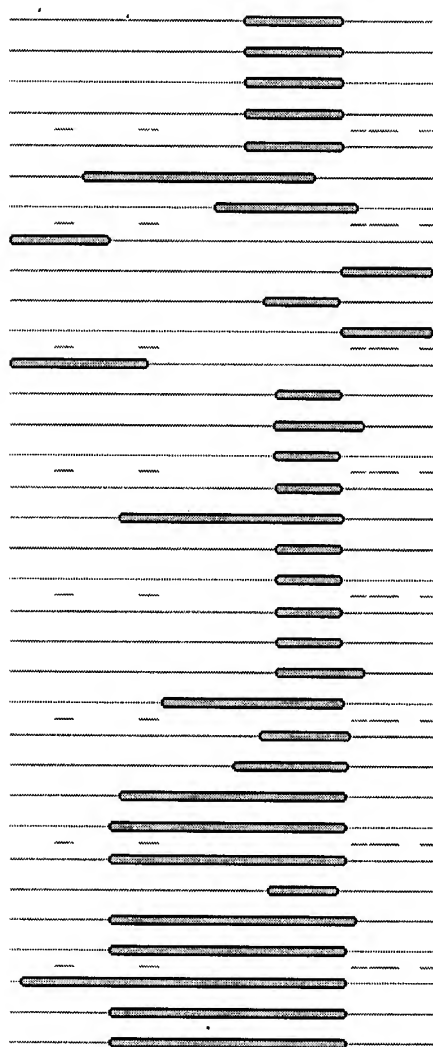


	<u>SCORE</u>	<u>P</u>	<u>ACCESSION</u>	<u>GI</u>	<u>PROTEIN DESCRIPTION</u>
Conserved Domain Database hits					
	2801	30	BAC29885	26332310	unnamed protein product [Mus muscu
	2800	30	AAB00468	1325982	zinc finger protein
	2798	30	BAE26289	74204504	unnamed protein product [Mus muscu
	2606	28	P08154	119244	Early growth response protein 1 (E
	2605	22	XP_001...	109078851	PREDICTED: early growth response 1
	2602	22	AAH73983	49258078	Early growth response 1 [Homo sapi
	2568	21	XP_851238	73970872	PREDICTED: similar to Early growth
	2547	21	AAI18329	109658287	Early growth response 1 [Bos tauru
	2546	30	AAA39382	198605	Krox-24 protein
	2503	21	Q29W20	109828308	Early growth response protein 1 (E
	2479	21	XP_538649	73970876	PREDICTED: similar to Early growth
	2380	22	XP_517958	114602090	PREDICTED: hypothetical protein [P
	2286	21	XP_863364	73970874	PREDICTED: similar to Early growth
	2219	30	BAE21758	74227339	unnamed protein product [Mus muscu
	1968	18	CAG31294	53128355	hypothetical protein [Gallus gallu
	1965	18	NP_989467	46358333	early growth response 1 [Gallus ga
	1924	18	NP_001...	124358912	early growth response 1 [Taeniopyg
	1901	17	AAT71995	50253588	egr [Xenopus tropicalis]
	1894	17	AAI35807	134026134	Unknown (protein for MGC:121808) [
	1869	17	AAH72770	49114879	Egr1 protein [Xenopus laevis]
	1856	17	AAF66986	7673684	early growth response protein [Xen
	1762	17	AAH68816	46250130	MGC81421 protein [Xenopus laevis]
	1617	18	AAO84528	29422210	zinc finger protein [Actitis macul
	1613	18	AAO84509	29422172	zinc finger protein [Podiceps auri
	1612	18	AAO84517	29422188	zinc finger protein [Cygnus olor]
	1609	18	AAO84530	29422214	zinc finger protein [Gavia stellat
	1608	18	AAO84547	29422248	zinc finger protein [Trogon melanu
	1608	18	AAO84511	29422176	zinc finger protein [Pygoscelis ad
	1608	18	AAO84508	29422170	zinc finger protein [Aechmophorus
	1603	18	AAO84543	29422240	zinc finger protein [Nyctibius gra
	1602	18	AAO84541	29422236	zinc finger protein [Tyto alba]
	1602	18	AAO84519	29422192	zinc finger protein [Ardea herodia
	1598	18	AAO84551	29422256	zinc finger protein [Capito niger]
	1598	18	AAO84548	29422250	zinc finger protein [Trogon melano
	1598	18	AAO84523	29422200	zinc finger protein [Pavo cristatu
	1598	18	AAO84513	29422180	zinc finger protein [Puffinus tenu
	1598	18	AAO84522	29422198	zinc finger protein [Falco columba
	1597	18	AAO84552	29422258	zinc finger protein [Nonnulla rubec
	1596	18	AAO84735	29422679	zinc finger protein [Heliothryx ba


	1596	18	AAO84532	29422218	zinc finger protein	[Zenaida macro
	1595	18	AAO84516	29422186	zinc finger protein	[Phalacrocorax
	1594	18	AAO84549	29422252	zinc finger protein	[Halcyon leuco
	1594	18	AAO84510	29422174	zinc finger protein	[Aptenodytes p
	1593	18	AAO84542	29422238	zinc finger protein	[Caprimulgus s
	1592	18	AAO84738	29422685	zinc finger protein	[Thalurania fu
	1591	18	AAO84536	29422226	zinc finger protein	[Tauraco porph
	1591	18	AAO84527	29422208	zinc finger protein	[Aethia pusill
	1591	18	AAO84524	29422202	zinc finger protein	[Balearica pav
	1590	18	AAO84525	29422204	zinc finger protein	[Cariama crist
	1590	18	AAO84745	29422699	zinc finger protein	[Automolus leu
	1589	18	AAO84540	29422234	zinc finger protein	[Otus kennicot
	1588	18	AAO84749	29422707	zinc finger protein	[Pipra coronat
	1588	18	AAO84737	29422683	zinc finger protein	[Stellula call
	1588	18	AAO84554	29422262	zinc finger protein	[Cyanocitta st
	1586	18	AAO84534	29422222	zinc finger protein	[Pyrrhura pict
	1586	18	AAO84747	29422703	zinc finger protein	[Formicarius a
	1586	18	AAO84734	29422677	zinc finger protein	[Eutoxeres aqu
	1584	18	AAO84546	29422246	zinc finger protein	[Phaethornis e
	1584	18	AAO84555	29422264	zinc finger protein	[Conopophaga p
	1582	18	AAO84733	29422675	zinc finger protein	[Discosura lon
	1581	18	AAO84535	29422224	zinc finger protein	[Colius striat
	1581	18	AAO84740	29422689	zinc finger protein	[Apus pacificu
	1580	18	AAO84521	29422196	zinc finger protein	[Accipiter coo
	1580	18	AAO84751	29422711	zinc finger protein	[Psarisomus da
	1579	18	AAO84743	29422695	zinc finger protein	[Hirundapus ca
	1579	18	AAO84533	29422220	zinc finger protein	[Aratinga wedd
	1577	18	AAO84741	29422691	zinc finger protein	[Chaetura vau
	1574	18	AAO84739	29422687	zinc finger protein	[Aeronautes sa
	1574	18	AAO84520	29422194	zinc finger protein	[Ciconia nigra
	1573	18	AAO84755	29422719	zinc finger protein	[Leucosticte a
	1573	18	AAO84752	29422713	zinc finger protein	[Thamnophilus
	1571	18	AAO84748	29422705	zinc finger protein	[Myiarchus cin
	1571	18	AAO84753	29422715	zinc finger protein	[Baeolophus in
	1569	18	AAO84756	29422721	zinc finger protein	[Mimus polyglo
	1569	18	AAO84544	29422242	zinc finger protein	[Hemiprogne my
	1568	18	AAO84744	29422697	zinc finger protein	[Tachornis pho
	1565	18	AAO84731	29422671	zinc finger protein	[Archilochus c
	1565	18	AAO84538	29422230	zinc finger protein	[Geococcyx cal
	1561	18	AAO84758	29422725	zinc finger protein	[Turdus migrat
	1561	18	AAO84754	29422717	zinc finger protein	[Chamaea fasci
	1560	18	AAO84757	29422723	zinc finger protein	[Regulus calen
	1556	18	AAO84742	29422693	zinc finger protein	[Collocalia es
	1552	18	AAO84512	29422178	zinc finger protein	[Diomedea immu
	1551	18	AAO84545	29422244	zinc finger protein	[Streptoprocne
	1541	18	AAO84526	29422206	zinc finger protein	[Rallus limico
	1540	18	AAO84746	29422701	zinc finger protein	[Deconychura l
	1536	18	AAO84553	29422260	zinc finger protein	[Picoides pube
	1530	15	AAS72398	45643008	early growth response 1	[Astatotil
	1522	18	ABK41196	117574628	ZENK	[Serinus canaria]
	1510	15	AAK40312	20384656	Egr-1	[Clarias gariepinus]
	1507	18	AAO84529	29422212	zinc finger protein	[Larus occiden
	1500	18	AAO84736	29422681	zinc finger protein	[Lampornis cas
	1496	18	AAO84550	29422254	zinc finger protein	[Baryphthengus
	1491	15	2022191A	1091895	Zn finger protein	
	1489	18	AAO84518	29422190	zinc finger protein	[Phoenicopteru
	1454	18	AAO84531	29422216	zinc finger protein	[Columbina pic
	1452	18	AAO84759	29422727	zinc finger protein	[Vermivora vir
	1369	18	AAO84537	29422228	zinc finger protein	[Crotophaga an
	1206	18	AAO84515	29422184	zinc finger protein	[Pelecanus occ
	1096	22	AAM46168	21310176	zinc finger-containing transcripti	
	1047	18	AAO84539	29422232	zinc finger protein	[Saurothera lo



985	15	ABH07425	111154392	early growth response 1 [Xiphophor
979	21	CAB60137	6272256	early growth response protein 1(Eg
859	18	AAO84760	29422729	zinc finger protein [Vireo cassini
827	17	AAI36206	134024220	Unknown (protein for MGC:122663) [
763	18	O73691	6707678	Early growth response protein 1 (E
760	18	AAC12267	3015611	zinc finger protein [Coturnix cotu
759	17	Q08427	1169500	Early growth response protein 2 (E
745	15	Q05159	462005	Early growth response protein 2b (
744	15	AAH81622	51858822	Early growth response 2b [Danio re
742	30	NP_061251	9055212	early growth response 3 [Mus muscu
742	30	AAI00735	72679797	Egr3 protein [Mus musculus]
742	30	AAI03570	73768787	Egr3 protein [Mus musculus]
742	21	XP_604596	119900644	PREDICTED: similar to transcriptio
740	18	O73693	6707680	Early growth response protein 1 (E
740	21	XP_543247	73994036	PREDICTED: similar to early growth
739	22	CAA45275	35473	transcription factor [Homo sapiens
739	22	EAW63649	119584053	early growth response 3 [Homo sapi
736	22	AAB19317	232789	EGR3 protein [Homo sapiens]
734	28	AAA20818	529948	zinc-finger transcription factor E
732	21	XP_536361	73953203	PREDICTED: similar to Early growth
731	30	AAI03571	73695362	Egr3 protein [Mus musculus]
727	30	AAA39380	387395	zinc finger protein B
727	30	AAA39379	387394	zinc finger protein A
727	15	NP_001...	50540362	hypothetical protein LOC436920 [Da
726	18	AAK25738	13430085	zinc-finger transcription factor K
726	21	ABG49107	110007351	early growth response 2 [Sus scrof
725	22	A40492	105902	early growth response 2 protein (E
725	22	AAA52372	181987	early growth response 2 protein
725	15	CAG01615	47215310	unnamed protein product [Tetraodon
725	22	XP_519651	114619237	PREDICTED: similar to Egr3 protein
723	28	BAA89318	6691489	zinc finger protein krox-20 [Rattu
723	28	BAA11932	1208442	Krox-20 protein [Rattus norvegicus
723	28	NP_446085	16758440	early growth response 2 [Rattus no
723	22	BAE91572	90086039	unnamed protein product [Macaca fa
723	22	XP_001...	109089684	PREDICTED: early growth response 2
721	20	XP_001...	126304173	PREDICTED: similar to early growth
718	22	EAW54239	119574624	early growth response 2 (Krox-20 h
718	22	EAW54238	119574623	early growth response 2 (Krox-20 h
718	1	AAV38366	54695988	early growth response 2 (Krox-20 h
718	22	XP_001...	114630692	PREDICTED: early growth response 2
715	22	CAH18435	51476978	hypothetical protein [Homo sapiens
695	22	AAH35625	23272558	EGR2 protein [Homo sapiens]
695	1	AAX29943	60654505	early growth response 2 [synthetic
693	18	AAO84514	29422182	zinc finger protein [Oceanodroma h
691	21	CAA68091	1491747	early growth response protein 1 [O
664	10	AAL83211	18996779	zinc finger transcription factor E
639	23	CAB94932	8670891	early growth response protein 1 [O
636	17	AAT84069	50841410	early growth response 1; egr-1 [Ra
635	17	AAT68470	59905952	early growth response 1 [Physalaem
634	10	CAB92782	8217858	Krox protein [Branchiostoma florid
609	15	XP_700268	125842478	PREDICTED: similar to Egr2a protei
583	15	AAL50218	19879554	zinc finger transcription factor [
576	15	CAG12332	47211764	unnamed protein product [Tetraodon
571	28	AAH97334	66910557	Egr3 protein [Rattus norvegicus]
571	8	XP_970833	91076334	PREDICTED: similar to CG7847-PA, i
570	26	AAU06263	51556987	early growth response protein 1 [P
566	18	ABK80858	118344692	zenk transcription factor [Taeniop
566	20	XP_001...	126272624	PREDICTED: similar to early growth
559	21	ABC86582	86129861	early growth response protein 3 [S
558	8	AAZ95459	74054139	stripe-b-like protein [Calliphora
554	28	AAB38708	1732260	Krox-24 [Rattus norvegicus]
551	8	XP_312150	118782248	ENSANGP00000022657 [Anopheles gamb



550	8	NP_732289	24647827	stripe CG7847-PB, isoform B [Droso
550	8	AAF55492	7300332	CG7847-PA, isoform A [Drosophila m
550	8	AAB02354	1147787	stripe b protein
550	8	AAB35453	1195546	mammalian egr homolog [Drosophila
550	8	AAB02355	1147789	stripe a protein
541	29	AAB19318	232791	Egr-3 protein [Mus sp.]
538	8	XP_001...	110763490	PREDICTED: similar to stripe CG784
537	22	EAW62136	119582540	early growth response 1, isoform C
522	21	AAS84215	46243958	early growth response protein 1 [F
517	15	ABD36922	87295260	early growth response protein 2 [M
508	26	AAU06264	51556989	early growth response protein 1 [P
499	18	AAS66362	45478063	zenk transcription factor [Serinus
496	30	1A1LA	3319031	Chain A, Zif268 Zinc Finger-Dna Co
489	22	ABM47706	121223105	EGR3 [Saguinus labiatus]
488	30	1ZAAC	443340	Chain C, Zif268 Immediate Early Ge
488	30	1JK2A	16975181	Chain A, Zif268 D20a Mutant Bound
486	15	CAG11507	47219974	unnamed protein product [Tetraodon
485	30	1A1JA	3319025	Chain A, Radr (Zif268 Variant) Zin
485	30	1P47B	33357856	Chain B, Crystal Structure Of Tand
480	30	1A1HA	3319019	Chain A, Qgsr (Zif268 Variant) Zin
478	30	1A1GA	3319016	Chain A, Dsnr (Zif268 Variant) Zin
476	22	ABM67341	122892574	EGR3 [Hylobates klossii]
473	15	CAF88638	47197946	unnamed protein product [Tetraodon
460	15	XP_001...	125804314	PREDICTED: hypothetical protein [D
457	7	CAE63237	39596618	Hypothetical protein CBG07600 [Cae
457	18	XP_420888	50747472	PREDICTED: similar to zinc finger
456	21	CAC07207	9971069	early growth response 4 [Bos tauru
452	22	XP_001...	109103546	PREDICTED: similar to early growth
449	7	CAA93744	118142311	Hypothetical protein C27C12.2 [Cae
448	15	XP_001...	125852828	PREDICTED: hypothetical protein [D
446	20	XP_001...	126305536	PREDICTED: similar to early growth
444	28	AAA41698	205697	zinc finger transcriptional activa
444	22	XP_001...	114578256	PREDICTED: hypothetical protein [P
443	22	NP_001956	145301592	early growth response 4 [Homo sapi

	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help

Query: gi|5679716 transcription factor TFIIIA [Xenopus laevis]
 Matching gi: 125858782

Show identical	Best hits	Common Tree	Taxonomy Report	3D structures	CDD-Search
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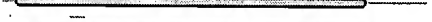
196 BLAST hits to 23 unique species Sort by taxonomy proximity


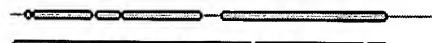

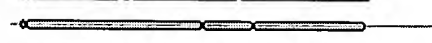
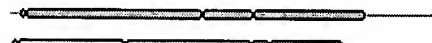




















☐ Archaea
 ☐ Bacteria
 ☒ 191 Metazoa
 ☒ 4 Fungi
 ☐ 0 Plants
 ☐ 0 Viruses
 ☒ 1 Other Eukaryotae


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New search by GI:

344 aa

	SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
	Conserved Domain Database hits				
	1912	27	P03001	2851464	Transcription factor IIIA (Factor
	1912	27	AAA49967	214819	5S RNA gene transcription factor (
	1655	26	AAA49713	214151	finger protein
	1640	26	P17842	135644	Transcription factor IIIA (Factor
	1234	20	CAA36065	51870484	transcription factor IIIA [Rana ca
	1223	20	AAA49534	213698	transcription factor IIIA
	1166	20	CAA41259	429029	transcription factor IIIA [Bufo am
	1098	27	1TF6D	3319101	Chain D, Co-Crystal Structure Of X
	1057	17	XP_534523	73993496	PREDICTED: similar to Transcriptio
	1053	17	XP_001...	109496555	PREDICTED: similar to Transcriptio
	1049	17	AAL69686	18448382	transcription factor IIIA [Mus mus
	1046	17	I38937	7443518	DNA/RNA-binding protein - human (f
	1046	17	EAX08404	119628809	general transcription factor IIIA,
	1044	17	XP_001...	126327587	PREDICTED: similar to general tran
	1043	17	XP_001...	109120259	PREDICTED: general transcription f
	1039	17	Q92664	2501697	Transcription factor IIIA (Factor
	1039	17	XP_522641	114649204	PREDICTED: general transcription f
	1036	17	AAL69685	18448380	transcription factor IIIA [Rattus
	1014	17	XP_417125	118085014	PREDICTED: similar to DNA/RNA-bind
	994	17	BAA06988	1616942	Xenopus transcription factor IIIA
	964	15	NP_001...	51467980	general transcription factor IIIA
	964	15	AAH95553	63101319	General transcription factor IIIAa
	964	15	CAM14175	122890859	general transcription factor IIIAa
	940	15	CAF95356	47214099	unnamed protein product [Tetraodon
	745	15	P79797	2501698	Transcription factor IIIA (Factor
	732	15	XP_695856	68404134	PREDICTED: similar to LOC558030 pr
	724	15	AAI33957	126631337	Unknown (protein for MGC:162349) [
	710	17	G01496	7443519	transcription factor IIIA - human
	621	15	CAG04218	47223357	unnamed protein product [Tetraodon
	582	9	XP_001...	115930582	PREDICTED: similar to transcriptio
	536	15	XP_698725	125844787	PREDICTED: similar to LOC570186 pr
	536	15	AAI33842	126631481	Unknown (protein for IMAGE:8764610
	536	15	CAM56594	126632710	novel protein containing multiple
	533	15	CAG12242	47205683	unnamed protein product [Tetraodon
	526	17	EAX08405	119628810	general transcription factor IIIA,
	518	15	XP_001...	125817653	PREDICTED: similar to General tran
	517	27	1TF3A	2554749	Chain A, Tfiiaa Finger 1-3 Bound T
	504	17	AAH32292	21595508	General transcription factor III A
	504	15	AAD38911	5231230	RNA binding protein 42Sp43 [Oryzia
	504	17	NP_079928	27532949	general transcription factor III A

	504	27	1UN6C	39654962	Chain C, The Crystal Structure Of ;
	496	17	BAC25209	26359810	unnamed protein product [Mus muscu
	496	25	NP_001...	62859447	zinc finger protein 160 [Xenopus t
	484	15	AAI22321	115292001	LOC558030 protein [Danio rerio]
	469	27	C34895	103978	5S RNA-binding protein p43 - Afric
	469	27	AAA49714	214153	finger protein
	453	4	CAB59689	6138900	SPAC144.09c [Schizosaccharomyces p
	453	26	AAA49712	214149	finger protein
	453	10	FAA00120	93003074	TPA: zinc finger protein [Ciona in
	411	8	EAT32245	108865917	transcription factor IIIA, putativ
	410	8	EAT33755	108869530	transcription factor IIIA, putativ
	399	17	XP_001...	109503923	PREDICTED: similar to zinc finger
	398	17	BAA34724	3953593	Zinc finger protein s11-6 [Mus mus
	398	17	NP_579936	126723419	zinc finger protein 617 [Mus muscu
	394	17	XP_001...	126305280	PREDICTED: similar to mKIAA1611 pr
	392	3	EAL66839	60468839	C2H2 type Zn finger-containing pro
	391	17	BAE25579	74180723	unnamed protein product [Mus muscu
	390	17	XP_001...	109124104	PREDICTED: similar to zinc finger
	389	17	XP_989844	94388487	PREDICTED: similar to gonadotropin
	389	17	XP_993819	94389515	PREDICTED: similar to zinc finger
	389	17	XP_524178	114676346	PREDICTED: hypothetical protein is
	389	17	XP_001...	114676348	PREDICTED: hypothetical protein is
	388	17	XP_990773	94388780	PREDICTED: similar to gonadotropin
	388	17	XP_512547	114676358	PREDICTED: zinc finger protein 208
	387	17	EAW84919	119605325	hCG1773661 [Homo sapiens]

	BLAST	Protein	Structure	PubMed	Taxonomy
	Genome	Nucleotide	3D-Domains	Books	Help

Query: gi|30103103 transcription factor IIIA [Arabidopsis thaliana]
Matching gi: 42572075, 45935011, 46367450

[Show identical](#) [Best hits](#) [Common Tree](#) [Taxonomy Report](#) [3D structures](#) [CDD Search](#)

187 BLAST hits to 23 unique species Sort by taxonomy proximity










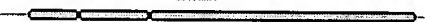





















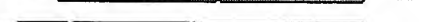


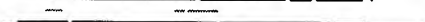




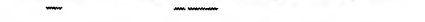
☐ Archaea ☐ Bacteria ☒ 169 Metazoa ☒ 3 Fungi ☒ 15 Plants ☐ 0 Viruses ☐ 0 Other Eukaryotae















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New search by GI:

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412 aa		SCORE	P	ACCESSION	GI	PROTEIN DESCRIPTION
		2097	19	AAG51140	12322204	C2H2-type zinc finger protein, put
		1800	19	AAL47409	17978875	At1g72050/F28P5_6 [Arabidopsis tha
		1101	13	ABI85393	115279800	transcription factor IIIA [Lycoper
		984	11	EAZ21492	125580561	hypothetical protein OsJ_004975 [O
		953	11	AAV31216	54287472	putative transcription factor IIIA
		948	14	ABE94424	92898905	Zinc finger, C2H2-type [Medicago t
		847	14	ABE83784	140040206	Zinc finger, C2H2-type [Medicago t
		789	11	EAY96344	125550635	hypothetical protein OsI_017577 [O
		768	11	NP_001...	115443793	Os02g0116000 [Oryza sativa (japoni
		765	11	NP_001...	115461795	Os05g0121400 [Oryza sativa (japoni
		497	11	BAA90519	8099147	unnamed protein product [Oryza sat
		352	3	Q92664	2501697	Transcription factor IIIA (Factor
		352	3	BAA06988	1616942	Xenopus transcription factor IIIA
		351	3	I38937	7443518	DNA/RNA-binding protein - human (f
		351	3	EAX08404	119628809	general transcription factor IIIA,
		346	3	XP_001...	109120259	PREDICTED: general transcription f
		345	3	AAL69685	18448380	transcription factor IIIA [Rattus
		344	3	XP_522641	114649204	PREDICTED: general transcription f
		336	3	XP_001...	109496555	PREDICTED: similar to Transcriptio
		334	3	XP_001...	126327587	PREDICTED: similar to general tran
		328	3	AAL69686	18448382	transcription factor IIIA [Mus mus
		328	3	XP_417125	118085014	PREDICTED: similar to DNA/RNA-bind
		320	3	XP_534523	73993496	PREDICTED: similar to Transcriptio
		317	3	CAA36065	51870484	transcription factor IIIA [Rana ca
		310	3	AAA49534	213698	transcription factor IIIA
		309	3	XP_001...	125844580	PREDICTED: hypothetical protein [D
		305	3	AAH95553	63101319	General transcription factor IIIAa
		305	3	CAM14175	122890859	general transcription factor IIIAa
		303	3	NP_001...	51467980	general transcription factor IIIA
		301	3	G01496	7443519	transcription factor IIIA - human
		301	3	CAA41259	429029	transcription factor IIIA [Bufo am
		301	3	CAF95356	47214099	unnamed protein product [Tetraodon
		299	3	P03001	2851464	Transcription factor IIIA (Factor
		299	3	AAA49967	214819	5S RNA gene transcription factor (
		299	3	AAI29562	125858782	Unknown (protein for MGC:160228) [
		294	3	AAA49713	214151	finger protein
		294	3	XP_001...	125814982	PREDICTED: hypothetical protein [D
		294	3	XP_001...	125836913	PREDICTED: hypothetical protein [D
		289	3	XP_698514	125805174	PREDICTED: similar to zinc finger
		288	3	CAB59689	6138900	SPAC144.09c [Schizosaccharomyces p

	284	3	<u>P17842</u>	<u>135644</u>	Transcription factor IIIA (Factor
	283	3	<u>XP_001...</u>	<u>125817773</u>	PREDICTED: similar to hCG1773661 [
	283	3	<u>XP_686402</u>	<u>125836933</u>	PREDICTED: similar to zinc finger
	283	3	<u>AAI34176</u>	<u>126631923</u>	Unknown (protein for MGC:162972) [
	282	3	<u>XP_696062</u>	<u>125879439</u>	PREDICTED: hypothetical protein [D
	280	3	<u>NP_001...</u>	<u>71834484</u>	hypothetical protein LOC562615 [Da
	279	3	<u>ABM88105</u>	<u>124013673</u>	ZNF16 [Macaca nemestrina]
	279	3	<u>XP_001...</u>	<u>125849177</u>	PREDICTED: hypothetical protein [D
	278	3	<u>AAZ20773</u>	<u>71044473</u>	zinc finger protein [Homo sapiens]
	278	3	<u>AAF75235</u>	<u>8453103</u>	zinc finger protein [Homo sapiens]
	278	3	<u>CAD39111</u>	<u>21740198</u>	hypothetical protein [Homo sapiens]
	278	3	<u>P17020</u>	<u>68846743</u>	Zinc finger protein 16 (Zinc finge
	277	3	<u>XP_686651</u>	<u>68368011</u>	PREDICTED: hypothetical protein [D
	277	3	<u>XP_001...</u>	<u>109461399</u>	PREDICTED: similar to zinc finger



Blast 2 Sequences results

PubMed

Entrez

BLAST

OMIM

Taxonomy

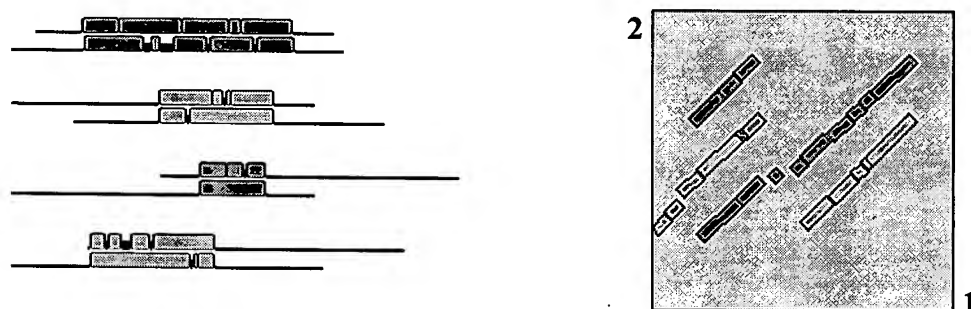
Structure

BLAST 2 SEQUENCES RESULTS VERSION BLASTP 2.2.16 [Mar-25-2007]

Matrix **BLOSUM62** gap open: **11** gap extension: **1**
x_dropoff: **0** expect: **300.000** wordsize: **3** Filter ☐ View option **Standard**
Masking character option **X for protein, n for nucleotide** Masking color option **Black**
☐ Show CDS translation **Align**

Sequence 1: gi|30103103|gb|AAO73339.1|transcription factor IIIA [Arabidopsis thaliana]
>gi|42572075|ref|NP_974128.1| zinc finger (C2H2 type) family protein [Arabidopsis thaliana]
>gi|45935011|gb|AAS79540.1| At1g72050 [Arabidopsis thaliana] >gi|46367450|emb|CAG25851.1| hypothetical protein [Arabidopsis thaliana]
Length = 412 (1 .. 412)

Sequence 2: gi|2501697|sp|Q92664|TF3A_HUMANTranscription factor IIIA (Factor A) (TFIIIA)
Length = 423 (1 .. 423)



NOTE:Bitscore and expect value are calculated based on the size of the nr database.



Score = 117 bits (294), Expect = 2e-24, Method: Composition-based stats.
Identities = 85/291 (29%), Positives = 132/291 (45%), Gaps = 43/291 (14%)

Query	70	ECGAEFKKPAHLKQHMQSHSLERSFTCYVDDCAASYRRKDHLNRHLLTHKG-KLFKCPKE	128
		+C A + K L H+ H+ ER F C + C ++ R HL+RH+LTH G K F C	
Sbjct	104	DCSANYSKAWKLD AHLCKHTGERPFVCDYEGCGKAFIRDYHLSRHILTHTGEKPFVCAAN	163
Query	129	NCKSEFSVQGNVGRHVKKYHSNDNRDKDNTGLGDGDKDNTCKGDDDKEKSGSGGCEKENE	188
		C +F+ + N+ +H ++ H N K C +D K	
Sbjct	164	GCDQKFNTKSNLKKHFERKHENQ-----KQYICSFEDCK-----	198
Query	189	GNGGSGKDNNNGDSQPAEC-STGQKQVVCKEIGCGKAFKYPQLQKHQDSHVKLDSVEA	247
		K + + +C +T + C + GCGK F PS+L++H +H E	
Sbjct	199	-----KTFKKHQQLKIHQCQNTNEPLFKCTQEGCGKH FASPSKLKRHAKAH-----EG	246
Query	248	FCSEPGCMKYFTNEECLKSHIRSCH-QHINCEICGSKHLKKN-IKRHLRTHDEDSSPGEI	305
		+ + GC L H+R H + I CE+C +K+ +K+H++TH +	
Sbjct	247	YVCQKGCSFVAKTWTPELLKHVRETHKEEILCEVCRKTFKRKDYLKQHMKTHAPERDV--C	304

```

Query  306  KCEVEGCSSTFSKASNLOKHKMAVHDDIRPFVCGFPGCGMRFAYKHVRNKH  356
          +C  EGC  T++  NLQ  H+  +  H++  RPFVC  GCG  FA  K  +H
Sbjct  305  RCPREGCGRTYTTVFNLQSHILSFHEESRPFVCEHAGCGKTFAMQSLTRH  355

```

Score = 59.7 bits (143), Expect = 5e-07, Method: Composition-based stats.
Identities = 47/152 (30%), Positives = 69/152 (45%), Gaps = 6/152 (3%)

```

Query  210  TGQKQVVCKEIGCGKAFKYPQLQKHQDSHVKLDSVEAFCSEPGCMKYFTNEECLKSHIR  269
          TG++  VC  GCGKAF  L  +H  +H  C+  GC  +  F  +  LK  H
Sbjct  123  TGERPFVCDYEGCGKAFIRDYHLSRHILHTHTGEKPF--VCAANGCDQKFNTKSNLKKHFE  180

Query  270  SCHQHINCE-ICGSKHLKKNIKRH--LRTHD-EDSSPGEIKCEVEGCSSTFSKASNLOKH  325
          H++  +  IC  +  KK  K+H  L+  H  ++++  KC  EGC  F+  S  L++H
Sbjct  181  RKHENQQKQYICSFEDCKKTFKKHQQLKIHQCNQNTNEPLFKCTQEGCGKHFAFSPSKLKRH  240

Query  326  MKAHVHDDIRPFVCGFPGCGMRFAYKHVRNKH  357
          KA  +  C  F  KHVR  H+
Sbjct  241  AKAHEGYVCQKGCSEFVAKTWTTELLKHVRETHK  272

```

Score = 42.4 bits (98), Expect = 0.083, Method: Composition-based stats.
Identities = 26/89 (29%), Positives = 44/89 (49%), Gaps = 3/89 (3%)

```

Query  58  VDEESSNHTCQECGAEFKKPAHLKQHMQSHSLERSFT-CYVDDCAASYRRKDHLNRHLL  116
          V  E  C+  C  FK+  +LKQHM++H+  ER  C  +  C  +Y  +L  H+L
Sbjct  267  VRETHKEEILCEVCRKTFKRKDYLKQHMKTHAPERDVCRCPREGCGRTYTTVFNLQSHIL  326

Query  117  T--HKGKLFKCPKENCKSEFSVQGNVGRH  143
          +  +  +  F  C  C  F+++  ++  RH
Sbjct  327  SFHEESRPFVCEHAGCGKTFAMQSLTRH  355

```

Score = 35.0 bits (79), Expect = 14, Method: Composition-based stats.
Identities = 35/164 (21%), Positives = 61/164 (37%), Gaps = 21/164 (12%)

```

Query  6  KVDVKTSAKKDIRNYLCQY--CGISRSKNYLITKHIQSH-----HQMELEE  49
          K+D  R  ++C  Y  CG  +  ++Y  +++HI  +H  +  +
Sbjct  114  KLDAHLCKHTGERPFVCDYEGCGKAFIRDYHLSRHILHTHTGEKPFVCAANGCDQKFNTKS  173

Query  50  ERDDEACEVDEESSNHTC--QECGAEFKKPAHLKQHMQSHSLERSFTCYVDDCAASYRR  107
          E  +  C  ++C  FKK  LK  H  ++  E  F  C  +  C  +
Sbjct  174  NLKKHFERKHENQQKQYICSFEDCKKTFKKHQQLKIHQCNQNTNEPLFKCTQEGCGKHFAF  233

Query  108  KDHLNRHLLTHKGKLFKCPKENCKSEFSVQGNVGRHVKKYHSND  151
          L  RH  H+G  +  C  K  C  +  +HV++  H  +
Sbjct  234  PSKLRHAKAHEG--YVCQK-GCSFVAKTWTTELLKHVRETHKEE  274

```

CPU time: 0.03 user secs. 0.02 sys. secs 0.05 total secs.